

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query                               | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|--|---|------------------|---------|---------------------|
| S77   | 6    | S73 and (drripp\$3)                        | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2009/12/15<br>09:21 |
| S76   | 79   | S73 and (drripp\$3 or drop)                | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2009/12/15<br>09:21 |
| S75   | 1    | S73 and (drripp\$3 or drop) near<br>nozzle | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2009/12/15<br>09:21 |
| S74   | 1    | S73 and (dripping or drop) near<br>nozzle  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2009/12/15<br>09:21 |
| S73   | 333  | S72 and @ad<"20041015"                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2009/12/15<br>09:21 |
| S72   | 333  | S71 and @ad<"20041015"                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2009/12/15<br>09:21 |
| S71   | 613  | 422/159.ccls.                              | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2009/12/15<br>09:21 |
| S78   | 333  | S72 and @ad<"20041015"                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ              | ON      | 2009/12/15<br>09:22 |

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| S79 | 32  | S72 and (dripping or droplet)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:23 |
| S80 | 20  | ("3085749"   "3256677"   "3361352"<br>  "3458135"   "3709432"  <br>"3739393").PN. OR ("4043507").<br>URPN. | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2009/12/15<br>09:26 |
| S81 | 15  | ("3313602"   "3329745"   "3331898"<br>  "3340567"   "3586742"  <br>"3617584").PN. OR ("4224258").<br>URPN. | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON | 2009/12/15<br>09:28 |
| S82 | 178 | S72 and (nuclear)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:32 |
| S84 | 27  | S83 and (drop or droplet or<br>microsphere)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:33 |
| S83 | 85  | S72 and (nuclear fuel)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:33 |
| S86 | 255 | S85 and (drop or droplet or<br>microsphere)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:35 |
| S85 | 974 | 252/625,634,635,636,641.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:35 |
| S87 | 115 | S86 and (nuclear fuel)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:36 |
| S88 | 11  | ("3340567").URPN.  | USPAT   | ADJ | ON | 2009/12/15<br>09:40 |

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| S89 | 140 | S86 not S87                                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:42 |
| S90 | 89  | S85 and (sol gel)                              | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:43 |
| S95 | 28  | irradiator with off with light                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:46 |
| S94 | 0   | irradiator with off with strode light          | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:46 |
| S93 | 152 | irradiator with off                            | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:46 |
| S92 | 0   | irradiator with on with off                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:46 |
| S91 | 0   | strode light irradiator with on with off       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:46 |
| S96 | 17  | light irradiator with (flow or regulat<br>\$5) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:53 |
| S97 | 12  | S96 and @ad<"20041015"                         | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:54 |

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| S99  | 13445 | irradiat\$4 near light with control\$4   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:56 |
| S98  | 29751 | irradiat\$4 with light with control\$4   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:56 |
| S101 | 155   | light irradiat\$4 with control\$4 with<br>(flow or flowrate or volume)                 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:57 |
| S100 | 7552  | light irradiat\$4 with control\$4  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:57 |
| S103 | 6     | light irradiat\$4 with control\$4 with<br>(flow or flowrate or volume) with off        | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>09:58 |
| S104 | 17003 | detect\$4 near (moving object or<br>droplet or drop)                                   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>10:13 |
| S106 | 8     | detect\$4 near (moving object or<br>droplet or drop) and irradiator                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>10:14 |
| S105 | 0     | detect\$4 near (moving object or<br>droplet or drop) and irradiator and<br>photosensor | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>10:14 |
| S108 | 10    | irradiator same (photosensor or<br>photo sensor)                                       | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>10:16 |

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| S107 | 7    | irradiator same photosensor   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>10:16 |
| S109 | 1243 | (photosensor or photo sensor) with<br>(volume or rate or flowrate)                    | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>10:18 |
| S111 | 69   | S110 and @ad<"20041015"   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>10:19 |
| S110 | 92   | (photosensor or photo sensor) with<br>(volume or rate or flowrate) with<br>control\$3 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>10:19 |
| S114 | 19   | S113 and @ad<"20041015"   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>10:38 |
| S113 | 24   | plunger type metering pump  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>10:38 |
| S112 | 0    | plunger type metering pump with<br>pulsation  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>10:38 |
| S116 | 2    | plunger type metering pump same<br>constant   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>10:39 |
| S115 | 0    | plunger type metering pump with<br>constant   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>10:39 |

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| S119 | 1    | plunger near metering pump with constant   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/15<br>10:41 |
| S118 | 4    | plunger near metering pump same constant   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/15<br>10:41 |
| S117 | 2381 | metering pump same constant  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/15<br>10:41 |
| S120 | 5    | ((("20070178036") or ("5514306") or ("4202793") or ("5698173") or ("4778665")).PN.   | US-PGPUB;<br>USPAT; USOCR   | OR  | OFF | 2009/12/15<br>10:59 |
| S123 | 223  | S122 and @ad<"20041015"  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/15<br>11:43 |
| S122 | 332  | uranium and nuclear fuel and (collecting or remaining (tray or pipe or transfer))  | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON  | 2009/12/15<br>11:43 |
| S121 | 3503 | uranium and nuclear fuel and collecting or remaining (tray or pipe or transfer)  | US-PGPUB;<br>USPAT; USOCR   | ADJ | ON  | 2009/12/15<br>11:43 |
| S124 | 90   | S123 and (droplet or drop or microsphere)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/15<br>11:44 |
| S127 | 4    | (collecting or transferring) with (remaining or leftover) with reaction with (stop\$5 or complete\$3) and (droplet or drop or microsphere) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/15<br>11:50 |
| S126 | 1257 | (remaining or leftover) with reaction with (stop\$5 or complete\$3) and (droplet or drop or microsphere)                                   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/15<br>11:50 |
| S125 | 0    | (transferring or collecting) near (remaining or leftover) with reaction with (stop\$5 or complete\$3) and (droplet or drop or microsphere) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/15<br>11:50 |

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| S131 | 228  | S130 and @ad<"20041015"   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>12:04 |
| S130 | 359  | (dripping) with nozzle with (droplet or drop or microsphere)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>12:04 |
| S129 | 668  | (dripping) with nozzle same (droplet or drop or microsphere)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>12:04 |
| S128 | 6305 | (dripping) same (droplet or drop or microsphere)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>12:04 |
| S132 | 3    | (dripping or dripper) with (droplet or drop or microsphere) with (extra or remaining) with (collecting or transferring) | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>12:36 |
| S134 | 130  | S133 and @ad<"20041015"   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>12:37 |
| S133 | 227  | (droplet or drop or microsphere) with (extra or remaining) with (collecting or transferring)                            | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>12:37 |
| S136 | 94   | S135 and @ad<"20041015"   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>13:04 |
| S135 | 166  | nozzle with (extra or remaining) with (collecting or transferring)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON | 2009/12/15<br>13:04 |

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| S137 | 1   | jp-2836711\$.did.  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT             | ADJ | ON  | 2009/12/23<br>10:04 |
| S139 | 147 | S138 and @ad< "20041015"   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/29<br>12:26 |
| S138 | 222 | light near irradiat\$3 with (object or droplet or drop or particle) same flash \$3 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT             | ADJ | ON  | 2009/12/29<br>12:26 |
| S140 | 4   | light near irradiat\$3 with (droplet or drop) same flash\$3                        | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT             | ADJ | ON  | 2009/12/29<br>12:27 |
| S144 | 155 | S143 and @ad< "20041015"   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | ADJ | ON  | 2009/12/29<br>12:28 |
| S143 | 455 | light near irradiat\$3 with (droplet)  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT             | ADJ | ON  | 2009/12/29<br>12:28 |
| S142 | 0   | light near irradiat\$3 with (droplet or drop) same on near off                     | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT             | ADJ | ON  | 2009/12/29<br>12:28 |
| S141 | 941 | light near irradiat\$3 with (droplet or drop)                                      | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT             | ADJ | ON  | 2009/12/29<br>12:28 |
| S145 | 0   | light near irradiat\$3 with (droplet) same strobe                                  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT             | ADJ | ON  | 2009/12/29<br>12:30 |
| L1   | 4   | ((("3313602") or ("3340567")).PN.  | US-PGPUB;<br>USPAT; USOCR   | OR  | OFF | 2009/12/29<br>14:35 |

**EAST Search History (Interference)**

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**12/ 29/ 2009 2:36:48 PM****C:\ Documents and Settings\ hnguyen19\ My Documents\ EAST\ Workspaces\ 10-575661.wsp**